

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1

Information in the shaded areas
is not required by Federal law.

C A D 0 8 6 5 1 0 0 0 5 8 5 6 8 6

of 1

3. Generator's Name and Mailing Address

Douglas Aircraft Company Attn: Rob Tue11 C6-59
19503 South Normandie Ave., Torrance, CA 90502

4. Generator's Phone (310) 533-7926 or (310) 533-7231

5. Transporter 1 Company Name

6. US EPA ID Number

Laidlaw Environmental Services of CA, Inc.

C A D 0 0 0 0 8 3 1 2 1

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

Norris Environmental Services
5215 South Boyle Avenue
Los Angeles, CA 90058

C A D 0 9 7 0 3 0 9 9 3

A. State Manifest Document Number

93385686

B. State Generator's ID

H A H 0 3 6 0 0 5 6 9 8

C. State Transporter's ID

423514

D. Transporter's Phone

(310) 518-4700

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

C A D 0 9 7 0 3 0 9 9 3

H. Facility's Phone

(213) 588-7111

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

I. Waste Number

a. RQ, waste sodium cyanide, solution; 6.1;
UN1689; PG II (Sodium Cyanide)

009 D F

04235

State 141

EPA/Other P106

b. (water contaminated with trace acids)
Non-RCRA Hazardous waste liquids

028 D F

13450

State 141

EPA/Other N/R

c. RQ, waste sodium cyanide; 6.1; UN1689; PG I
(Sodium Cyanide) (P106, F007)

004 D F

01980

State 711

EPA/Other P106

d.

State

EPA/Other

J. Additional Descriptions for Materials Listed Above

11a) E0106200118AQ. Rinsewater from tank 63, 51, 49.
b) E0106200119AQ. Rinse from tanks 53, 54, 55, 60, 68, 73.
c) E0106200120AN Cyanide solution from tanks 48, 57.

K. Handling Codes for Wastes Listed Above

a. 15

b. 15

c. 15

d.

15. Special Handling Instructions and Additional Information

24 Hour emergency telephone number (800)424-9300 (Chemtrec).

DOT ERG#'s 11a)55 b)31 c)55

Additional codes 11c) F007

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Robert G. Tuell, Jr.

Signature

Robert G. Tuell, Jr.

Month Day Year

05 04 94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JAMES JENNINGS

Signature

James Jennings

Month Day Year

05 04 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Item 11a - The waste is NON-RCRA Stat code 135 EPA N/R
wash (No trace of cyanide)
Item 11c) Other toxic constituent present in waste, EPA-8006. A.A

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Alan Ahmadi

Signature

Alan Ahmadi

Month Day Year

05 04 94

DO NOT WRITE BELOW THIS LINE.

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C A D 0 0 0 0 8 3 1 2 1

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D F

04235

P

State 141
EPA/Other P106

b. (water contaminated with trace acids)
Non-RCRA Hazardous waste liquids

028

D F

13450

P

State 141
EPA/Other N/R

c. RQ, waste sodium cyanide; 6.1; UN1689; PG I
(Sodium Cyanide) (P106, F007)

004

D F

01980

P

State 711
EPA/Other P106

d.

State
EPA/Other

J. Additional Descriptions for Materials Listed Above

11a) E0106200118AQ. Rinsewater from tank 63, 51, 49.
b) E0106200119AQ. Rinse from tanks 53, 54, 55, 60, 68, 73.
c) E0106200120. Cyanide solution from tanks 48, 57.

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a.

b.

c.

d.

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DOT ERG's 11a)55 b)31 c)55

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Printed/Typed Name

Robert G. Tuell, Jr.

Signature

Robert G. Tuell, Jr.

Month

Day

Year

05 04 94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

JAMES JENNINGS

Signature

James Jennings

Month

Day

Year

05 04 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month

Day

Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month

Day

Year

DO NOT WRITE BELOW THIS LINE.

TRANSPORTATION SERVICE ORDER

Transportation ID #: CAD000083121

☐ 4501 Pacheco Blvd.
 Martinez, CA 94553
 (510) 372-4800

☐ 3237 Patton Way
 Bakersfield, CA 93308
 (805) 835-5801 or
 (805) 589-4970

☒ 221 E. "D" Street
 Wilmington, CA 90744
 (310) 518-4700

Customer Name: DOUGLAS AIRCRAFT

Telephone: 310-533 7231

Billing Address: _____

Contact Person: DAVID SEIGHTS IV

City: TORRANCE State CA

BOE #: _____

Job Location: 190TH X NORMANDIE

Destination: NORRIS

Type of Material: Sodium cyanide

Sales Person: S. SMITH

Generator: DOUGLAS AIRCRAFT

EPA Number: _____

Generator ID Number (State): _____

Facility EPA NO.: _____

Disposal: LES Facility _____ Outside Facility ☒ None _____

Customer P.O. 27064-A6046

Manifest # 93385686 # _____

Services Performed _____

1 BOX VAN PLO 40 DRUMS
HAUL TO NORRIS

Start Miles: 38949

End Miles: _____

Total Miles: _____

Truck No.: 16005

Trailer No: 423381

Net Wgt: _____

Capacity: _____

Driver Time: Start (AM/PM) 700

Stop (AM/PM) _____

Gross Time _____

Meals: Start Time (AM/PM) _____

Stop (AM/PM) _____

Less Time _____

Other Time _____

Detail _____

Adj. Time _____

Driver's Name JAMES JENNINGS

Driver No. 1313

Total Time _____

Customer Site: Time In _____

Disposal Site: Time In _____

Time In _____

Time Out _____

Time Out _____

Time Out _____

Explanation of Time: (1) Load 13,450 lbs. (2)

CUSTOMER AUTHORIZATION AND APPROVAL SIGNATURE: Robert G. Snell, Jr. 05-04-94

FOR ACCOUNTING ONLY

| PROD CODE | DESCRIPTION | QTY | UOM | RATE | EXT | PROD CODE | DESCRIPTION | QTY | UOM | RATE | EXT |
|-----------|-----------------|-----|-----|------|-----|-----------|---------------|-----|-----|------|-----|
| 14000 | TRANS | | ST | | | 24015 | HAZ SOLIDS | | | | |
| 14000 | TRANS | | OT | | | 24015 | N/HAZ SOLIDS | | | | |
| 14000 | TRANS | | DT | | | 24010 | HAZ LIQUIDS | | | | |
| | 2ND DRIVER | | | | | 24010 | N/HAZ LIQUIDS | | | | |
| | SUBHAULER | | | | | 24020 | DRUMS | | | | |
| 54045 | LABOR | | | | | 24025 | SOLID SURCHG | | | | |
| 94065 | BIN RENTAL | | | | | 24025 | STABILIZATION | | | | |
| 14000 | TRANS (NO DISP) | | | | | 24025 | LIQ SURCHG | | | | |
| 14000 | WASHOUT | | | | | | TAXES | | | | |
| 14000 | SCALE/CERTS | | | | | | TAXES | | | | |
| 14000 | SUBSISTENCE | | | | | 34035 | ANALYTICAL | | | | |
| 14055 | TOLLS | | | | | 74055 | MISC CHARGES | | | | |
| 90465 | TYVEK | | | | | 74055 | MISC CHARGES | | | | |
| 90465 | BOOTS | | | | | | | | | | |
| 90465 | GOGGLES | | | | | | | | | | |
| 90465 | GLOVES | | | | | | | | | | |
| 90465 | BIN LINERS | | | | | | | | | | |
| 70455 | OTHERS | | | | | | | | | | |

Generator Name: DOUGLAS AIRCRAFT CO

EPA ID Number: CAD 086510005

Manifest Number: 93385686

Date of Shipment: 5-4-94

Indicate Waste Line Item (11): 01

This notification is hereby submitted to NORRIS ENVIRONMENTAL SERVICES in compliance with EPA regulations described in 40 CFR Part 268 which prohibit the land disposal of certain hazardous wastes, unless these wastes are treated to meet specified standards or treated using specified treatment technologies.

I have marked the appropriate box(es) below, which indicates how my waste must be managed to conform to land disposal ban and federal regulations.

California List Wastes Notification

RCRA Land Disposal Notification

- ☒ Liquid hazardous waste including free liquids associated with any solid or sludge containing free cyanide at concentrations greater than or equal to 1000mg/L.

Treatment Standard-Cyanide Destruction Stabilization

- ☐ Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing the following metals (or elements) at concentrations greater than or equal to those specified below:

Treatment Standard-Neutralization, Precipitation: Metals Recovery

(check those that apply)

- | | |
|--|-------------|
| <input type="checkbox"/> Arsenic and/or compounds (as As) | 5.0 mg/L: |
| <input type="checkbox"/> Barium and/or compounds (as Ba) | 100.0 mg/L: |
| <input type="checkbox"/> Cadmium and/or compounds (as Cd) | 1.0 mg/L: |
| <input type="checkbox"/> Chromium (VI and/or compounds as Cr VI) | 5.0 mg/L: |
| <input type="checkbox"/> Lead and/or compounds (as Pb) | 5.0 mg/L: |
| <input type="checkbox"/> Mercury and/or compounds (as Hg) | 0.2 mg/L: |
| <input type="checkbox"/> Selenium and/or compounds (as Se) | 1.0 mg/L: |
| <input type="checkbox"/> Silver and/or compounds (as Ag) | 5.0 mg/L: |
- ☐ Liquid hazardous wastes that are primarily water and contain halogenated organic compounds (HOCs) in total concentration greater than or equal to 1,000 mg/L and less than 10,000 mg/L HOCs (see attached listing of HOC constituents)

Treatment Standard-Carbon Absorption Steam Stripping

- ☐ Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm.

Treatment Standard-Incineration, high efficiency boiler, other thermal treatment

- ☐ Liquid hazardous wastes having a pH less than or equal to two(2) or pH equal to or greater than 12.5.

Treatment Standard-Neutralization Stabilization

- ☐ The spent solvent wastes specified in 40 CFR 261.31 as EPA Hazardous Wastes Nos F001, F002, F003, F004 and F005.

Treatment Standard-Specify technology used to meet Table CCWE. Check constituent(s) on Table CCWE which were reduced below treatment standards

Waste Requires Treatment

- ☒ I am the initial generator of an untreated waste identified above which must be treated in the appropriate treatment standard set forth in 40 CFR 268 Subpart D, or where treatment standard exists for the California List Waste, the waste must be treated to the levels specified under 40 CFR 268.32.

Waste Treated to Performance Standards

- ☐ The waste identified above has been treated in compliance with the applicable performance standards specified in 40 CFR 268 Subpart D and/or the applicable prohibitions set forth in 40 CFR 268.32. "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process used to support this certification and that, based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the performance levels specified in 40 CFR Part 268 Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(s) without dilutions of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Waste Subject to Variance

- ☐ The waste identified above is subject to a case-by-case extension under 40 CFR 268.5, a no-migration petition under 40 CFR 268.6, a nationwide variance under Subpart C, or is soil or debris generated from a response action taken under CERCLA or corrective action under RCRA.

The most recent copy of waste analysis or a description of the knowledge upon which this notification is based is attached. I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Print Name Robert G. Tuell, Jr.

Title Senior Plant Engineer

Date 05-04-94

Robert G. Tuell, Jr.

Generator Name: DOUGLAS AIRCRAFT Co.EPA ID Number: CAD 086510005Manifest Number: Q3385686Date of Shipment: 5-4-94Indicate Waste Line Item (11): 6

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Treatment Standard-Cyanide Destruction Stabilization

- ☐ Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing the following metals (or elements) at concentrations greater than or equal to those specified below:

Treatment Standard-Neutralization, Precipitation: Metals Recovery

(check those that apply)

- | | |
|--|-------------|
| <input type="checkbox"/> Arsenic and/or compounds (as As) | 5.0 mg/L: |
| <input type="checkbox"/> Barium and/or compounds (as Ba) | 100.0 mg/L: |
| <input type="checkbox"/> Cadmium and/or compounds (as Cd) | 1.0 mg/L: |
| <input type="checkbox"/> Chromium (VI and/or compounds as Cr VI) | 5.0 mg/L: |
| <input type="checkbox"/> Lead and/or compounds (as Pb) | 5.0 mg/L: |
| <input type="checkbox"/> Mercury and/or compounds (as Hg) | 0.2 mg/L: |
| <input type="checkbox"/> Selenium and/or compounds (as Se) | 1.0 mg/L: |
| <input type="checkbox"/> Silver and/or compounds (as Ag) | 5.0 mg/L: |

- ☐ Liquid hazardous wastes that are primarily water and contain halogenated organic compounds (HOCs) in total concentration greater than or equal to 1,000 mg/L and less than 10,000 mg/L HOCs (see attached listing of HOC constituents)

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The most recent copy of waste analysis or a description of the knowledge upon which this notification is based is attached. I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Print Name Robert G. Tuell, Jr.Title Senior Plant EngineerDate 05-04-94Robert G. Tuell, Jr.

Generator Name: DOUGLAS AIRCRAFT CO

EPA ID Number: CAD 086510005

Manifest Number: 93385686

Date of Shipment: 5-4-94

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|---|-------------|
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| <input type="checkbox"/> Chromium (VI) and/or compounds as Cr VI) | 5.0 mg/L: |
| <input type="checkbox"/> Lead and/or compounds (as Pb) | 5.0 mg/L: |
| <input type="checkbox"/> Mercury and/or compounds (as Hg) | 0.2 mg/L: |
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Print Name Robert G. Tuell, Jr. Title Senior Plant Engineer

Date 05-04-94

Robert G. Tuell, Jr.



(FOLD ON DOTTED LINE—STAPLE TO HAZARDOUS MATERIALS SHIPPING PAPER)

Use basic description and technical name as described in 49 CFR 172.202 and 172.203 (K).

Basic Description: RO, waste sodium cyanide; 6.1; UN1689;

PG I

Technical Name(s): SODIUM CYANIDE

EMERGENCY
RESPONSE
GUIDE
FORM

24 hr. Emergency Contact Tel. No.: 1-800-424-9300

(Chemtrec)

D.O.T. EMERGENCY RESPONSE GUIDE 55

POTENTIAL HAZARDS

HEALTH HAZARDS

Poisonous; may be fatal if inhaled, swallowed or absorbed through skin.
Contact may cause burns to skin and eyes.
Runoff from fire control or dilution water may give off poisonous gases and cause water pollution.
Fire may produce irritating or poisonous gases.

FIRE OR EXPLOSION

Some of these materials may burn, but none of them ignites readily.
Container may explode violently in heat of fire.

EMERGENCY ACTION

Keep unnecessary people away; isolate hazard area and deny entry.
Stay upwind; keep out of low areas, and ventilate closed spaces before entering.
Positive pressure self-contained breathing apparatus (SCBA) and chemical protective clothing which is specifically recommended by the shipper or manufacturer may be worn. It may provide little or no thermal protection.
Structural firefighters' protective clothing is not effective for these materials.
Remove and isolate contaminated clothing at the site.
CALL CHEMTREC AT 1-800-424-9300 AS SOON AS POSSIBLE,
especially if there is no local hazardous materials team available.

FIRE

Small Fires: Dry chemical, water spray or regular foam.
Large Fires: Water spray, fog or regular foam.
Move container from fire area if you can do it without risk.
Fight fire from maximum distance. Stay away from ends of tanks.
Dike fire-control water for later disposal; do not scatter the material.

SPILL OR LEAK

Do not touch or walk through spilled material; stop leak if you can do it without risk.
Fully-encapsulating, vapor-protective clothing should be worn for spills and leaks with no fire.
Use water spray to reduce vapors.
Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely, move containers from spill area.
Large Spills: Dike far ahead of liquid spill for later disposal.

FIRST AID

Move victim to fresh air and call emergency medical care; if not breathing, give artificial respiration; if breathing is difficult, give oxygen.
In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.
Speed in removing material from skin is of extreme importance.
Remove and isolate contaminated clothing and shoes at the site.
Keep victim quiet and maintain normal body temperature.
Effects may be delayed, keep victim under observation.

Information on this Guide Page is from the 1990 Emergency Response Guidebook Dot P 5800.5. It applies only to the basic description and technical name entered by the shipper at the top of this form.

Check to see whether the shipper commodity (Basic description entered at the top of this form) is listed by **I.D.# and NAME OF THE MATERIAL** in the Table of Initial Isolation and Protective Action Distances. This Table is partially reproduced on the back of this Guide Page to reflect only commodities assigned to this Guide Number. Use this information from the table in addition to the Guide Page **IF THERE IS NO FIRE.**

READ AND CHECK THE NAMES AND NUMBERS CAREFULLY BECAUSE COMPLETELY DIFFERENT HAZARDOUS MATERIALS CAN HAVE NAMES AND/OR NUMBERS WHICH ARE ALMOST THE SAME!

INITIAL ISOLATION PROTECTION TABLES FOR SELECTED HAZARDOUS MATERIALS

The table gives suggested distances for ISOLATING unprotected people from spill areas involving the hazardous materials shown, **IF THE LISTED MATERIAL IS NOT ON FIRE**. If the material is on fire, refer to the 2-digit Guide.

These materials were selected because their vapors have the potential to produce poisonous effects. The table is useful for no more than the first 30 minutes of an incident involving these materials. There are several good reasons for suggesting that the use of the table be limited specifically to the initial phase of a no-fire spill incident during transport.

D.O.T. EMERGENCY RESPONSE GUIDE 55

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

| ID No. | NAME OF MATERIAL | SMALL SPILLS (Leak or spill from a small package or from a large package from a small package) | | LARGE SPILLS (Leak or spill from a large package or from a large package from a small package) | |
|--------|---|---|---------------------------------------|---|---------------------------------------|
| | | Fire ISOLATE distance (Feet) | Then, PROTECT distance (Meters) | Fire ISOLATE distance (Feet) | Then, PROTECT distance (Meters) |
| 1062 | Methyl Bromide | 600 | 2 | 900 | 3 |
| 1135 | Ethylene Chlorohydrin | 150 | 0.8 | 150 | 0.8 |
| 1541 | Acetone Chlorohydrin | 150 | 0.2 | 150 | 0.2 |
| 1556 | Methylchloroarsine | 150 | 0.2 | 150 | 0.2 |
| 1560 | Arsenic Chloride | 1200 | 4 | 1500 | 5 |
| 1569 | Arsenic Trichloride | 1200 | 4 | 1500 | 5 |
| 1581 | Bromocresol | 150 | 0.2 | 150 | 0.2 |
| 1581 | Chloroacetic Acid | 150 | 0.8 | 1200 | 4 |
| 1581 | Methyl Bromide Mixture | 150 | 0.8 | 1200 | 4 |
| 1581 | Methyl Chloride Mixture | 150 | 0.8 | 1200 | 4 |
| 1605 | Dibromomethane | 150 | 0.2 | 150 | 0.2 |
| 1605 | Ethylene Dichloride | 150 | 0.2 | 150 | 0.2 |
| 1670 | Perchloromethyl Mercaptan | 150 | 0.2 | 150 | 0.2 |
| 1697 | Perchloromethyl Mercaptan | 150 | 0.8 | 150 | 0.8 |
| 1704 | Tetraethylphosphorotriphosphide | 900 | 3 | 1200 | 4 |
| 1704 | Dry, Liquid, or Mixture | 150 | 0.2 | 150 | 0.2 |
| 1889 | Cyanogen Bromide | 900 | 3 | 900 | 3 |
| 1889 | Ethylchloroarsine | 150 | 0.2 | 150 | 0.2 |
| 1916 | Dichloroethyl Ether | 150 | 0.2 | 150 | 0.2 |
| 1916 | Dichloroethyl Ether | 150 | 0.2 | 150 | 0.2 |
| 2290 | IPD | 900 | 3 | 900 | 3 |
| 2290 | Isopropyl Disocyanate | 900 | 3 | 900 | 3 |
| 2447 | Phenyl Isocyanate | 150 | 0.2 | 150 | 0.2 |
| 2448 | Dichloromethane-4,4 | 150 | 0.2 | 150 | 0.2 |
| 2449 | Methyl Chloride (4-phenyl- isocyanate) (ADB) | 150 | 0.2 | 150 | 0.2 |
| 2548 | Heptachlorodipentadiene | 150 | 0.2 | 150 | 0.2 |
| 2548 | Chloroacetylene | 150 | 0.2 | 150 | 0.2 |
| 2810 | Poisonous Liquid, N.O.S. (Poison B) (When "Inhalation Hazard" is on a package or labeling, see "Inhalation Hazard" in "Inhalation Hazard" section of this Guide.) | 1200 | 4 | 1500 | 5 |
| 2810 | Poisonous Liquid, N.O.S. (When "Inhalation Hazard" is on a package or shipping paper) | 1200 | 4 | 1500 | 5 |
| 9262 | Ammonium Butyrate | 150 | 0.2 | 150 | 0.2 |
| 9263 | Ammonium Butyrate | 150 | 0.2 | 150 | 0.2 |
| 9264 | 3,5-Dichloro-2,4,6-Tri- fluorobenzene | 150 | 0.2 | 150 | 0.2 |
| 9267 | Sulfur Chloride and Sulfur Dioxide Mixture | 600 | 2 | 600 | 2 |
| 9268 | 3-Methylacetylene | 150 | 0.2 | 150 | 0.2 |

If the chemical name and ID Number the shipper entered on the front of this form match a name from this list, **and NO FIRE exists**, you must:

determine if the incident involves a small or large spill; look up the isolation distance; (Direct all person to move in a crosswind direction, away from the spill, to that distance.) look up the initial PROTECTIVE ACTION DISTANCE in the table. (For practical purposes, the Protective Action Zone is a square whose length and width are the same as the downwind distance shown in the table.)

WHEN APPROACHING THE SCENE OF AN ACCIDENT INVOLVING ANY CARGO (NOT ONLY REGULATED HAZARDOUS MATERIALS):

- APPROACH INCIDENT FROM AN UPWIND DIRECTION, IF POSSIBLE
- MOVE AND KEEP PEOPLE AWAY FROM INCIDENT SCENE
- DO NOT WALK INTO OR TOUCH ANY SPILLED MATERIAL
- AVOID INHALING FUMES, SMOKE AND VAPORS EVEN IF NO HAZARDOUS MATERIALS ARE INVOLVED
- DO NOT ASSUME THAT GASES OR VAPORS ARE HARMLESS BECAUSE OF LACK OF SMELL—ODORLESS GASES OR VAPORS MAY BE HARMFUL

As a first responder at the scene of a hazardous materials incident, seek additional and more specific information about any material in question as soon as possible. This Guide Page is not intended for use during the cleanup phase for spilled materials, nor should it be used to determine compliance with any regulations. This information on this Emergency Response Form should be augmented by expert technical advice as soon as you have assessed the situation and have seen to the immediate needs of the people involved.

FOR FURTHER INFORMATION REFER TO DOT P 5800.5 (EMERGENCY RESPONSE GUIDEBOOK) AND TITLE 49 CODE OF FEDERAL REGULATIONS.



DOT EMERGENCY RESPONSE GUIDE 31

(FOLD ON DOTTED LINE—STAPLE TO HAZARDOUS MATERIALS SHIPPING PAPER)

Use basic description and technical name as described in 49 CFR 172.202 and 172.203 (K).

Basic Description: non-regulated material

Technical Name(s): water with trace amounts of acids

24 hr. Emergency Contact Tel. No.: 1-800-424-9300 (Chemtrec)

EMERGENCY
RESPONSE
GUIDE
FORM

DOT EMERGENCY RESPONSE GUIDE 31

POTENTIAL HAZARDS

FIRE OR EXPLOSION

Some of these materials may burn, but none of them ignites readily.

HEALTH HAZARDS

Contact may cause burns to skin and eyes.

Fire may produce irritating or poisonous gases.

Runoff from fire control or dilution water may cause pollution.

EMERGENCY ACTION

Keep unnecessary people away; isolate hazard area and deny entry.

Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection.

CALL CHEMTREC AT 1-800-424-9300 FOR EMERGENCY ASSISTANCE.

If water pollution occurs, notify the appropriate authorities.

FIRE

Small Fires: Dry chemical, CO₂, water spray or regular foam.

Large Fires: Water spray, fog or regular foam.

Move container from fire area if you can do it without risk.

Do not scatter spilled material with high-pressure water streams.

Dike fire-control water for later disposal.

SPILL OR LEAK

Stop leak if you can do it without risk.

Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

Cover powder spill with plastic sheet or tarp to minimize spreading.

FIRST AID

In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Wash skin with soap and water.

Remove and isolate contaminated clothing and shoes at the site.

Information on this Guide Page is from the 1990 Emergency Response Guidebook Dot P 5800.5. It applies only to the basic Description and Technical Name entered by the shipper at the top of this form.

Check to see whether the shipper commodity (Basic description entered at the top of this form) is listed by I.D.# and NAME OF THE MATERIAL in the Table of Initial Isolation and Protective Action Distances. This Table is partially reproduced on the back of this Guide Page to reflect only commodities assigned to this Guide Number. Use this information from the table in addition to the Guide Page **IF THERE IS NO FIRE.**

READ AND CHECK THE NAMES AND NUMBERS CAREFULLY BECAUSE COMPLETELY DIFFERENT HAZARDOUS MATERIALS CAN HAVE NAMES AND/OR NUMBERS WHICH ARE ALMOST THE SAME!

INITIAL ISOLATION PROTECTION TABLES FOR SELECTED HAZARDOUS MATERIALS

The table gives suggested distances for ISOLATING unprotected people from spill areas involving the hazardous materials shown, **IF THE LISTED MATERIAL IS NOT ON FIRE**. If the material is on fire, refer to the 2-digit Guide.

These materials were selected because their vapors have the potential to produce poisonous effects. The table is useful for no more than the first 30 minutes of an incident involving these materials. There are several good reasons for suggesting that the use of the table be limited specifically to the initial phase of a **no-fire** spill incident during transport.

D.O.T. EMERGENCY RESPONSE GUIDE 31

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

| USE THIS TABLE WHEN THE MATERIAL IS <u>NOT</u> ON FIRE. | | SMALL SPILLS (Leak or spill from a small package or small leak from a large package.) | | LARGE SPILLS (Leak or spill from a large package or spill from many small packages.) | |
|---|------------------|--|---|---|---|
| ID No. | NAME OF MATERIAL | First ISOLATE in all directions—(Feet) | Then, PROTECT those persons in the DOWNWIND direction—(Miles) | First, ISOLATE in all directions—(Feet) | Then, PROTECT those persons in the DOWNWIND direction—(Miles) |

No chemicals appear in Table of Isolation and Protective Action Distances which are assigned to this Guide number.

If the chemical name and ID Number the shipper entered on the front of this form match a name from this list, **and NO FIRE exists**, you must:

determine if the incident involves a small or large spill; look up the isolation distance; (Direct all person to move in a crosswind direction, away from the spill, to that distance.) look up the initial PROTECTIVE ACTION DISTANCE in the table. (For practical purposes, the Protective Action Zone is a square whose length and width are the same as the downwind distance shown in the table.)

WHEN APPROACHING THE SCENE OF AN ACCIDENT INVOLVING ANY CARGO
(NOT ONLY REGULATED HAZARDOUS MATERIALS):

- APPROACH INCIDENT FROM AN UPWIND DIRECTION, IF POSSIBLE
- MOVE AND KEEP PEOPLE AWAY FROM INCIDENT SCENE
- DO NOT WALK INTO OR TOUCH ANY SPILLED MATERIAL
- AVOID INHALING FUMES, SMOKE AND VAPORS EVEN IF NO HAZARDOUS MATERIALS ARE INVOLVED
- DO NOT ASSUME THAT GASES OR VAPORS ARE HARMLESS BECAUSE OF LACK OF SMELL—ODORLESS GASES OR VAPORS MAY BE HARMFUL

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FOR FURTHER INFORMATION REFER TO DOT P 5800.5 (EMERGENCY RESPONSE GUIDEBOOK) AND TITLE 49 CODE OF FEDERAL REGULATIONS.



(FOLD ON DOTTED LINE—STAPLE TO HAZARDOUS MATERIALS SHIPPING PAPER)

Use basic description and technical name as described in 49 CFR 172.202 and 172.203 (K).

Basic Description: RQ, waste sodium cyanide
solution; 6.1; UN1689; PGG

Technical Name(s): Sodium cyanide

EMERGENCY
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24 hr. Emergency Contact Tel. No.: 1-800-424-9300

(chemtrec)

D.O.T. EMERGENCY RESPONSE GUIDE 55

POTENTIAL HAZARDS

HEALTH HAZARDS

Poisonous; may be fatal if inhaled, swallowed or absorbed through skin.
Contact may cause burns to skin and eyes.
Runoff from fire control or dilution water may give off poisonous gases and cause water pollution.
Fire may produce irritating or poisonous gases.

FIRE OR EXPLOSION

Some of these materials may burn, but none of them ignites readily.
Container may explode violently in heat of fire.

EMERGENCY ACTION

Keep unnecessary people away; isolate hazard area and deny entry.
Stay upwind; keep out of low areas, and ventilate closed spaces before entering.
Positive pressure self-contained breathing apparatus (SCBA) and chemical protective clothing which is specifically recommended by the shipper or manufacturer may be worn. It may provide little or no thermal protection.
Structural firefighters' protective clothing is not effective for these materials.
Remove and isolate contaminated clothing at the site.
CALL CHEMTREC AT 1-800-424-9300 AS SOON AS POSSIBLE,
especially if there is no local hazardous materials team available.

FIRE

Small Fires: Dry chemical, water spray or regular foam.
Large Fires: Water spray, fog or regular foam.
Move container from fire area if you can do it without risk.
Fight fire from maximum distance. Stay away from ends of tanks.
Dike fire-control water for later disposal; do not scatter the material.

SPILL OR LEAK

Do not touch or walk through spilled material; stop leak if you can do it without risk.
Fully-encapsulating, vapor-protective clothing should be worn for spills and leaks with no fire.
Use water spray to reduce vapors.
Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.
Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely, move containers from spill area.
Large Spills: Dike far ahead of liquid spill for later disposal.

FIRST AID

Move victim to fresh air and call emergency medical care; if not breathing, give artificial respiration; if breathing is difficult, give oxygen.
In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes.
Speed in removing material from skin is of extreme importance.
Remove and isolate contaminated clothing and shoes at the site.
Keep victim quiet and maintain normal body temperature.
Effects may be delayed, keep victim under observation.

Information on this Guide Page is from the 1990 Emergency Response Guidebook Dot P 5800.5. It applies only to the basic Description and Technical Name entered by the shipper at the top of this form.

Check to see whether the shipper commodity (Basic description entered at the top of this form) is listed by I.D.# and NAME OF THE MATERIAL in the Table of Initial Isolation and Protective Action Distances. This Table is partially reproduced on the back of this Guide Page to reflect only commodities assigned to this Guide Number. Use this information from the table in addition to the Guide Page **IF THERE IS NO FIRE.**

READ AND CHECK THE NAMES AND NUMBERS CAREFULLY BECAUSE COMPLETELY DIFFERENT HAZARDOUS MATERIALS CAN HAVE NAMES AND/OR NUMBERS WHICH ARE ALMOST THE SAME!

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The table gives suggested distances for ISOLATING unprotected people from spill areas involving the hazardous materials shown, **IF THE LISTED MATERIAL IS NOT ON FIRE**. If the material is on fire, refer to the 2-digit Guide.

These materials were selected because their vapors have the potential to produce poisonous effects. The table is useful for no more than the first 30 minutes of an incident involving these materials. There are several good reasons for suggesting that the use of the table be limited specifically to the initial phase of a **no-fire** spill incident during transport.

D.O.T. EMERGENCY RESPONSE GUIDE 55

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

USE THIS TABLE WHEN THE MATERIAL IS MADE ON PAPER

| SMALL SKILLS (Based on small packages or small lots from a large package) | ID No. | NAME OF MATERIAL | | LARGE SKILLS (Based on large packages or full cartons from a large package) | | |
|--|---|---|---|--|---|-----|
| Final ISOLATE as at end-point (Feet) | New PROTECT those persons in the DOWNWIND (Miles) | Final ISOLATE as at end-point (Feet) | New PROTECT those persons in the DOWNWIND (Miles) | Final ISOLATE as at end-point (Feet) | New PROTECT those persons in the DOWNWIND (Miles) | |
| | | | | | | |
| 1082 | | Methyl Bromide | 600 | 2 | 900 | 3 |
| 1135 | | Methyl Chlorpyrifin | 150 | 0.8 | 150 | 0.8 |
| 1541 | | Azene Cyanohydrin | 150 | 0.2 | 150 | 0.2 |
| 1556 | | Methylchloroarsine | 150 | 0.2 | 150 | 0.2 |
| 1560 | | Arsenic Chloride | 1200 | 4 | 1500 | 5 |
| 1560 | | Arsenic Trichloride | 1200 | 4 | 1500 | 5 |
| 1569 | | Bromocacothione | 150 | 0.2 | 150 | 0.2 |
| 1581 | | Chlorophenyl Mixture | 150 | 0.8 | 1200 | 4 |
| 1581 | | Methyl Bromide and Methylene Chloride Mixture | 150 | 0.8 | 1200 | 4 |
| 1605 | | Dibenzene Chloride | 150 | 0.2 | 150 | 0.2 |
| 1605 | | Ethylene Dichloride | 150 | 0.2 | 150 | 0.2 |
| 1670 | | Pentachloronitro Mercaptan | 150 | 0.8 | 150 | 0.8 |
| 1697 | | Chloromethylacetone | 900 | 3 | 1200 | 4 |
| 1704 | | Tetraethyl Dithiopyrophosphate, Dry, Liquid, or Mixture | 150 | 0.2 | 150 | 0.2 |
| 1889 | | Cyanogen Bromide | 900 | 3 | 900 | 3 |
| 1892 | | Ethylchloroarsinate | 150 | 0.2 | 150 | 0.2 |
| 1916 | | Dichlorodisethyl Ether | 150 | 0.2 | 150 | 0.2 |
| 1918 | | Dichloromethyl Ether | 150 | 0.2 | 150 | 0.2 |
| 2220 | | IPCH | 900 | 3 | 900 | 3 |
| 2290 | | Isochlorane Disocyanate | 900 | 3 | 900 | 3 |
| 2467 | | Phenyl Isocyanate | 150 | 0.2 | 150 | 0.2 |
| 2469 | | Diphenylmethane-4,4'-diisocyanate | 150 | 0.2 | 150 | 0.2 |
| 2489 | | Methylene Bis-(p-Toluenyl isocyanate) (MDI) | 150 | 0.4 | 150 | 0.4 |
| 2646 | | Hexachlorocyclopentadiene | 150 | 0.4 | 150 | 0.4 |
| 2668 | | Chloroacetonitrile | 150 | 0.2 | 150 | 0.2 |
| 2810 | | Poisonous Liquid, N.O.S. (Person B) (When "Inhalation Hazard" appears on shipping paper) Poisonous Liquid, N.O.S. (When "Inhalation Hazard" appears on shipping paper) | 1200 | 4 | 1500 | 5 |
| 2810 | | Poisonous B Liquid, N.O.S. (When "Inhalation Hazard" appears on shipping paper) | 1200 | 4 | 1500 | 5 |
| 9282 | | Annoxiometer-Burynopier (paper) | 150 | 0.2 | 150 | 0.4 |
| 9283 | | Chlorophenyl Chloride | 150 | 0.2 | 150 | 0.4 |
| 9284 | | 3-Dichloro-2,6-Thi- | 150 | 0.2 | 150 | 0.2 |
| 9287 | | Sulfur Chloride and Carbon Tetrachloride Mixture | 600 | 2 | 600 | 2 |
| 9288 | | 3-Trifluoromethylphenylisocyanate | 150 | 0.2 | 150 | 0.2 |

determine if the incident involves a small or large spill; look up the isolation distance; (Direct all person to move in a crosswind direction, away from the spill, to that distance.) look up the initial PROTECTIVE ACTION DISTANCE in the table. (For practical purposes, the Protective Action Zone is a square whose length and width are the same as the downwind distance shown in the table.)

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